DAFTAR PUSTAKA

[1] A. P. Haripriya, “Secure-MQTT : an efficient fuzzy logic-based approach to detect DoS attack in MQTT protocol for internet of things,” 2019.

[2] M. Yassine, A. Ezzati, and M. Belaissaoui, “An Enhanced DTLS Protocol for Internet of Things Applications,” no. February 2018, 2016.

[3] S. Shin, K. Kobara, C. C. Chuang, and W. Huang, “A security framework for MQTT,” *2016 IEEE Conf. Commun. Netw. Secur. CNS 2016*, pp. 432–436, 2017.

[4] S. Hameed, F. I. Khan, and B. Hameed, “Understanding Security Requirements and Challenges in Internet of Things (IoT): A Review,” *Journal of Computer Networks and Communications*, vol. 2019. 2019.

[5] G. Potrino, F. De Rango, and P. Fazio, “A Distributed Mitigation Strategy against DoS attacks in Edge Computing,” *Wirel. Telecommun. Symp.*, vol. 2019-April, pp. 1–7, 2019.

[6] K. Bissel and L. Ponemon, “The Cost of Cybercrime - unlocking the value of improved cybersecurity protection,” 2019. .

[7] G. Potrino and A. F. Santamaria, “Modeling and evaluation of a new IoT security system for mitigating DoS attacks to the MQTT broker,” *2019 IEEE Wirel. Commun. Netw. Conf.*, pp. 1–6, 2019.

[8] A. P. Kelton, J. P. Papa, C. O. Lisboa, R. Munoz, and V. H. C. De, “Internet of Things : A survey on machine learning-based intrusion detection approaches,” *Comput. Networks*, vol. 151, pp. 147–157, 2019.

[9] G. Karatas, “Deep Learning in Intrusion Detection Systems,” no. February 2019, 2018.

[10] W. Li, S. Tug, W. Meng, and Y. Wang, “Designing collaborative blockchained signature-based intrusion detection in IoT environments” *Futur. Gener. Comput. Syst.*, vol. 96, pp. 481–489, 2019.

[11] M. S. Munir, I. S. Bajwa, and S. M. Cheema, “An intelligent and secure smart

watering system using fuzzy logic and blockchain" *Comput. Electr. Eng.*, vol. 77, pp. 109–119, 2019.

[12] D. Dinculeană and X. Cheng, "Vulnerabilities and limitations of MQTT protocol used between IoT devices," *Appl. Sci.*, vol. 9, no. 5, 2019.

[13] A. Velinov and A. Mileva, "Running and Testing Applications for Contiki OS Using Cooja Simulator," no. June 2016, 2018.

[14] A. Anupam, "Tenets of Internet of Things (IoT) application and Java technology," *2016 3rd Int. Conf. Recent Adv. Inf. Technol. RAIT 2016*, pp. 697–699, 2016.

[15] M. S. Harsha, B. M. Bhavani, and K. R. Kundhavai, "Analysis of vulnerabilities in MQTT security using Shodan API and implementation of its countermeasures via authentication and ACLs," *2018 Int. Conf. Adv. Comput. Commun. Informatics*, pp. 2244–2250, 2018.

[16] A. Al-Fuqaha, M. Guizani, M. Mohammadi, M. Aledhari, and M. Ayyash, "Internet of Things: A Survey on Enabling Technologies, Protocols, and Applications," *IEEE Commun. Surv. Tutorials*, vol. 17, no. 4, pp. 2347–2376, 2015.

[17] I. C. Wsn, J. Granjal, and A. Pedroso, "An Intrusion Detection and Prevention Framework for," vol. 2018, 2018.

[18] S. Andy, B. Rahardjo, and B. Hanindhito, "Attack scenarios and security analysis of MQTT communication protocol in IoT system," *Int. Conf. Electr. Eng. Comput. Sci. Informatics*, vol. 2017-Decem, no. May, 2017.

[19] S. H. Ramos, M. T. Villalba, and R. Lacuesta, "MQTT Security : A Novel Fuzzing Approach," vol. 2018, 2018.

[20] S. N. Firdous, Z. Baig, C. Valli, and A. Ibrahim, "Modelling and evaluation of malicious attacks against the IoT MQTT protocol," *Proc. - 2017 IEEE Int. Conf. Internet Things, IEEE Green Comput. Commun. IEEE Cyber, Phys. Soc. Comput. IEEE Smart Data, iThings-GreenCom-CPSCom-SmartData 2017*, vol. 2018-Janua, pp. 748–755, 2018.

[21] W. T. Su, W. C. Chen, and C. C. Chen, “An extensible and transparent thing-to-thing security enhancement for MQTT protocol in IoT environment,” *Glob. IoT Summit, GIoTS 2019 - Proc.*, pp. 1–4, 2019.

[22] C. Buratti *et al.*, “Testing Protocols for the Internet of Things on the EuWIn Platform,” vol. 4662, no. 318306, pp. 1–10, 2015.

[23] J. Granjal, “Intrusion Detection and Prevention in CoAP Wireless Sensor Networks Using Anomaly Detection,” 2018.

[24] G. Perrone, M. Vecchio, R. Pecori, and R. Giaffreda, “The Day After Mirai : A Survey on MQTT Security Solutions After the Largest Cyber-attack Carried Out through an Army of IoT Devices,” no. IoTBDS, pp. 246–253, 2017.

[25] S. K. Yee and J. V Milanovi, “Fuzzy Logic Controller for Decentralized Stabilization of Multimachine Power Systems,” vol. 16, no. 4, pp. 971–981, 2008.

[26] M. Alali, A. Almogren, M. M. Hassan, I. A. L. Rassan, and Z. Alam, “Improving Risk Assessment Model of Cyber Security Using Fuzzy Logic Inference System,” *Comput. Secur.*, 2017.

[27] S. Dick, “Toward Complex Fuzzy Logic,” vol. 13, no. 3, pp. 405–414, 2005.

[28] A. Machado *et al.*, “ScienceDirect A Fuzzy Inference System to Support Medical Diagnosis in Real Time,” *Procedia Comput. Sci.*, vol. 122, pp. 167–173, 2017.

[29] K. Ozera, K. Bylykbashi, Y. Liu, and L. Barolli, “A Fuzzy-Based Approach for Cluster Management in VANETs: Performance Evaluation for Two Fuzzy-Based Systems,” *Internet of Things*, 2018.

[30] A. F. Santamaria and F. De Rango, “A real IoT device deployment for E-Health applications under lightweight communication protocols, activity classifier and Edge data filtering,” *Comput. Commun.*, 2018.

[31] N. Upasani and H. Om, “A modified neuro-fuzzy classifier and its parallel

implementation on modern GPUs for real time intrusion detection," *Appl. Soft Comput. J.*, vol. 82, p. 105595, 2019.

[32] A. K. Das, S. Kalam, N. Sahar, and D. Sinha, "UCFL : User Categorization using Fuzzy Logic towards PUF based Two-Phase Authentication of Fog assisted IoT devices," *Comput. Secur.*, p. 101938, 2020.

[33] A. F. Gobi and W. Pedrycz, "Logic Minimization as an Efficient Means of Fuzzy Structure Discovery," vol. 16, no. 3, pp. 553–566, 2008.

[34] Kamaldeep, M. Malik, and M. Dutta, "Contiki-based mitigation of UDP flooding attacks in the Internet of things," *Proceeding - IEEE Int. Conf. Comput. Commun. Autom. ICCCA 2017*, vol. 2017-Janua, pp. 1296–1300, 2017.

[35] A. Rghioui and A. Khannous, "Denial-of-Service attacks on 6LoWPAN-RPL networks : Threats and an intrusion detection system proposition," no. July 2016, 2014.

[36] P. Kasinathan, C. Pastrone, M. A. Spirito, and M. Vinkovits, "Denial-of-Service detection in 6LoWPAN based Internet of Things," no. October, 2013.

[37] Dr Kumar Gaurav, "Programming Internet of Things using Contiki and Cooja," 2017.

[38] T. Benoit, "An Introdution to Cooja: The COOJA Simulator," 2019.